

CLAIMS

1. A silencer (100), in particular an exhaust silencer, for an internal combustion engine, comprising a first housing (12) with an inlet aperture (E) and an outlet aperture (A), wherein an exhaust stream flowing into the inlet aperture (E) and escaping from the outlet aperture (A) is fed via a catalytic converter element (K), characterised in that a calming chamber (10) is provided between an outlet area (30) of the catalytic converter element (K) and the outlet aperture (A) of the first housing (12).
2. The silencer according to claim 1, characterised in that the catalytic converter element (K) comprises a second housing (14) which is arranged within the first housing (12).
3. The silencer according to claim 1, characterised in that essentially the calming chamber (10) is formed by a second inside (20) of the second housing (14), by the outlet area (30) of the catalytic converter element (K), and by a recess (D) in the first housing (12).
4. The silencer according to any one of the preceding claims, characterised in that the second housing (14) comprises at least one retention plate (H) with a margin (R), whereby a catalytic converter chamber (KR) is formed between an inlet area (28) and the retention plate (H) and the second housing (14).
5. The silencer according to any one of the preceding claims, characterised in that a catalytic converter element (K) is arranged in the catalytic converter chamber (KR).
6. The silencer according to any one of the preceding claims, characterised in that the first housing (12) comprises a front housing shell (32) and a rear housing shell (34).
7. The silencer according to any one of the preceding claims, characterised in that the second housing (14) is attached to the front housing shell (32) of the first housing (12).

8. The silencer according to any one of the preceding claims, characterised in that a guide plate (L) is arranged on the front housing shell (32).
9. The silencer according to any one of the preceding claims, characterised in that an insertion slot (S) is formed between the recess (D) and the guide plate (L).
10. The silencer according to any one of the preceding claims, characterised in that spark-protection mesh (F) is arrangeable in the insertion slot (S).
11. The silencer according to any one of the preceding claims, characterised in that the spark-protection mesh (F), together with the recess (D), forms a small outlet chamber (44).
12. The silencer according to any one of the preceding claims, characterised in that the spark-protection mesh (F) is attached by at least one attachment element (24), in particular by a self-tapping sheet-metal screw, in the front housing shell (32).
13. The silencer according to any one of the preceding claims, characterised in that a cover (B) can be put in place on the front housing shell (32).
14. The silencer according to any one of the preceding claims, characterised in that the cover (B) and the front housing shell (32) together with the spark-protection mesh (F) form a large outlet chamber (38).
15. The silencer according to any one of the preceding claims, characterised in that the outlet chamber (38) comprises a fresh-air aperture (40).
16. The silencer according to any one of the preceding claims, characterised in that the outlet chamber (38) comprises an outlet aperture (42).
17. The silencer according to any one of the preceding claims, characterised in that the first and/or the second housing (12, 14) can be constructed in a dual-wall version, wherein an air gap and/or insulation material can be arranged between the walls.

18. The silencer (100) according to any one of the preceding claims, characterised in that the first and/or the second housing (12, 14) can be lined with a sound-absorbing material.
19. The silencer according to any one of the preceding claims, characterised in that an exhaust channel (26) adjoins the inlet aperture (E).
20. The silencer according to any one of the preceding claims, characterised in that cooling tubes for a liquid and/or gaseous medium can be arranged in the calming chamber (10).